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| 10/516,624 | 02/25/2005 | Harutian Manoukian | 3687-99 | 5280 |
| 23117 7590 08/08/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203 | | | EXAMINER YAN, REN LUO | |
| | | | ART UNIT 2854 | PAPER NUMBER |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/516,624

Applicant(s)

MANOUKIAN, HARUTIUN

Examiner

Ren L. Yan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) 19-26 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 12-3-2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Applicant's election with traverse of Group I, claims 1-18 in the reply filed on 5-11-2007 is acknowledged. The traversal is on the ground(s) that the subject matter of method claims 19-26 of Group II generally corresponds to claims 8-18 of Group I and therefore, the restriction is improper as applied between at least claims 8-18 and 19-26. This is not found persuasive because even though claim 8 recites a plurality of application stations arranged along a common production line, it specifically requires at least one station comprises at least one mobile printing bridge, and means to install and means to control, one said mobile printing bridge, an assembly for applying substances in screen printing mode or an assembly for applying substances in digital mode. This special technical feature of claim 8 is not at all shared by the group II claims 19-26. All is required by the independent claim 19 of group II is a plurality of stations arranged along a common production line and each of the stations is set for the application of one or more substances with the screen printing technique or with the digital printing technique. As can be readily seen above, the structural requirements for the two invention groups are distinct.

The requirement is still deemed proper and is therefore made FINAL.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15, 17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Dubuit(6,397,740).

With respect to claim 1, the patent to Dubuit teaches the broadly recited station as shown in Figs. 1-4b where screen printing unit 14 and digital printing unit 15 are alternately disposed for applying one or more substances to a substrate, of the type comprising at least one mobile printing bridge(support for the screen printing unit 14 or the support for the digital printing unit 15), characterized in that it comprises the inherent means to install and means to control, on said mobile printing bridge, an assembly for applying substances in screen printing mode or an assembly for applying substances in digital mode.

Regarding claim 2, Dubuit teaches in cl. 2, lines 62-67 and cl. 3, lines 28-40 wherein said means to install said assemblies for screen printing or digital application of one or more substances comprise at least one pair of supporting elements to mount on said mobile printing bridge at least one doctor/doctor unit or at least one doctor/scrapper unit of an assembly for applying one or more substances in screen printing mode, and Fig. 2 to mount at least a bar 27 to support a plurality of heads 28 for applying one or more substances in digital mode.

Regarding claim 3, Dubuit teaches the inherent structure necessary to enable alternate application of screen printing or digital printing including the means to alternatively control said assemblies for screen printing or digital application of one or more substances comprise a programmable control device to perform at least one of the following functions: data exchange under the form of signals with at least one general control unit associated with a machine to apply substances in which said station is installed; movement of said mobile printing bridge; movement of one or more mobile parts during operation in screen printing mode, and halting of said one or more mobile members during operation in digital mode; and control of the printing heads during operation in digital mode.

Regarding claims 4 and 6, Dubuit teaches the use of one or more heads 28 for ink jet type printing.

Regarding claim 5, Dubuit teaches that said one or more heads for ink jet type printing are supplied with the same substance, namely ink.

Regarding claim 7, Dubuit teaches at least two of said heads 28 for ink jet type printing are supplied with substances differing from one another, namely different color inks.

Regarding claim 8, Dubuit teaches in Figs. 1-4b a multicolor printing machine for applying substances to a substrate, of the type comprising a plurality of application stations arranged along a common production line, at least one unit for general control of said machine and means to transfer said substrate from one of said stations to another subsequent of said stations, characterized in that it comprises at least one station for applying one or more substances according to claim 1.

Regarding claim 9, Dubuit teaches in Figs. 2 and 3 wherein at least one of said stations is set for digital application of said one or more substances and comprises at least one printing bridge 27 which is movable in a direction perpendicular to the progress direction of said substrate.

Regarding claim 10, Dubuit teaches in Fig. 1 wherein at least one of said stations is set for digital application of said one or more substances and comprises at least one fixed printing bridge 20 which extends perpendicularly in relation to the progress direction of said substrate.

Regarding claims 11 and 13, Dubuit teaches wherein at least one of said stations is set for digital application of said one or more substances and comprises one or more heads 28 for ink jet type printing.

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Regarding claim 12, Dubuit teaches wherein said one or more heads for ink jet type printing are supplied with the same substance, namely ink.

Regarding claim 14, wherein at least two of said heads for ink jet type printing are supplied with substances differing from one another, namely different color inks.

Regarding claim 15, Dubuit teaches in cl. 3, lines 7 and 8 wherein at least one drying station of said substances is provided interposed between at least two of said stations for applying said one or mores substance to said substrate.

Regarding claim 17, Dubuit teaches wherein said means for transferring said substrate from one of said stations to another subsequent of said stations comprises gripping units (object support units 13) associated with each of said stations and controlled by said general control unit.

Regarding claim 18, Dubuit teaches wherein at least one of said stations is set for digital application of said one or more substances and at least another of said stations is set for screen printing application of said one or more substances.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dubuit in view of EP 0687560.

Dubuit teaches all that is claim except that the endless conveyor 11 for transferring the substrate from one station to another is a rotating turret rather than a continuous conveyor belt as recited. EP 0687560 teaches in a multicolor printer the conventionality of using a continuous

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conveyor belt 2 for transferring the substrate being printed from one printing station to another(printing stations 6-9) in a linear conveying path. See Figs. 1-6 and the abstract in EP 0687560 for example. In view of the teaching of EP 0687560, it would have been obvious to one of ordinary skill in the art to provide the printing machine of Dubuit with a linear substrate conveying path using a continuous conveyor belt in order to facilitate registration of the print image from one station to another and to ensure print quality.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ren L. Yan whose telephone number is 571-272-2173. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Ren L Yan
Primary Examiner
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